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November 14, 2019

Hamlet of Sachs Harbour  
General Delivery  
Sachs Harbour, NT X0E 0Z0

**Attention: Adella Carpenter, Acting Senior Administrative Officer**

<b>File Number</b>	<b>N7L3-1531</b>
<b>Type of Operation</b>	<b>CLASS B - MUNICIPAL</b>
<b>Location</b>	<b>Sachs Harbour</b>

Dear Adella Carpenter,

An inspection of the above noted operation was conducted on October 17, 2019 by Regional Environmental Assessment Coordinator, Alicia McRae. Enclosed is a copy of the Municipal Water Use Inspection Report.

Violations to the Hamlet of Sachs Harbour (The Hamlet) water license terms and conditions, the Waters Act and the Environmental Protection Act were noted. They are listed below and summarized at the end of the report.

Prior to the inspection it became clear to The Department of Environment and Natural Resources (ENR) that The Hamlet has been allowing the burning of garbage at the solid waste site facility, and are taking such matters into their own hands. ENR learned that an unknown member of the public lit a large pile of general household garbage on fire at the landfill after operational hours. It is evident that the Hamlet of Sachs Harbour is aware of this event, as the Hamlet is offering a \$2,000 reward for any tips relating to the incident, see figure 7. All unauthorized discharges, such as unlawful burning, shall be immediately reported to Environment and Natural Resources. ENR will then respond to each situation accordingly.

That being said, I would like to highly commend the Hamlet of Sachs Harbour for their recent hard work cleaning up and organizing the solid waste disposal facility, as well as addressing some other issues and concerns. In general, the landfill looks well organized and has sections set up for segregated disposal for larger types of waste.

A thorough inspection of the landfill could not be completed as 4 polar bears were inside the landfill vicinity at the time. In addition, there was 2-3 inches of fresh snowfall covering all facilities. An inspection was not conducted of the Hamlet shop due to time restrictions.



## WATER USE INSPECTION REPORT

It is to be reminded that The Hamlet of Sachs Harbour is still under environmental protection orders by previous Regional Environmental Protection Officer, Rolland Malegana, dated August 31, 2015. The Hamlet is to not burn any materials other than paper products and untreated wood until The Hamlet has received written approval for a burn pit from ENR, which The Hamlet has not received to date.

An updated Operation and Management Plan and Spill Contingency Plan were due to the Inuvialuit Water Board by February 17, 2018 as per Part E, Item 1 of the water licence. This is still yet to be completed. A lot of the Hamlet employee information and some important contact information are now out of date for both documents. This will need to be updated as soon as possible.

Please extend my deepest appreciations to Mr. Elanik and Mr. Lucas for all of their time and assistance during the inspection.

If you have any questions, please contact me at 867-678-6653.

Sincerely,

Alicia McRae  
Regional Environmental Assessment  
Coordinator  
Department of Environment and Natural  
Resources  
Inuvik Region

Cc: Lila Voudrach, Manager of Wildlife and Environment, ENR  
Lloyd Gruben, Inuvik Water Resource Officer, ENR  
Mardy Semmler, Executive Director, IWB  
Bijaya Adhikari, Science and Regulatory Coordinator, IWB  
Freda Wilson, Office Administrator, IWB  
Adella Carpenter, Acting Senior Administrative Officer, Hamlet of Sachs Harbour

Date:		Licence #:		Page No:	2
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### WATER USE INSPECTION REPORT

LICENCE #:	N7L3-1531	EXPIRY DATE:	November 20, 2022
LICENCEE:	Hamlet of Sachs Harbour	PREVIOUS INSPECTION:	September 09, 2015
COMPANY REP:	Adella Carpenter – Acting SAO	INSPECTION DATE:	October 17, 2019

### WATER SUPPLY

Source:	Water Lake	Quantity Used:	Unknown
Owner/Operator:	Hamlet of Sachs Harbour	Meter Reading:	N/I

Indicate:      **A - Acceptable**      **U - Unacceptable**      **N/A - Not Applicable**      **N/I - Not Inspected**

Intake Facilities	N/I <sup>1</sup>	Storage Structures	A	Treatment Systems	A	Recycling	N/A
Flow Meas. Device	N/I <sup>4</sup>	Conveyance Lines	N/I	Pumping Stations	U <sup>3</sup>	Chem. Storage	U <sup>2</sup>
						Modifications	N/A

### Water Supply Comments:

- The locking key for the water treatment plant (WTP) is being stored in a location easily accessible to the public. The WTP houses dangerous chemicals and expensive, job specific equipment. The key to the facility shall be kept in a secure location at all times, such as in the Hamlet office or shop, or with the foreman.
- <sup>1</sup>Water Lake had a layer of ice over the lake during the time of inspection. The intake pipe could not be inspected at the time of inspection. Overall condition seemed to be acceptable.
- <sup>2</sup>The WTP was in tidy condition at the time of inspection; however, housekeeping and organization can be improved. Multiple bottles of hypochlorite were scattered around the entrance. Chemicals should be locked away in a specific area for safe storage and keeping.
- <sup>3</sup>The pipe which the water truck receives water from was leaking at the time of inspection. There was a large icicle hanging from the water pipe at the time of inspection. The constant leak can be dangerous to employees as this will cause large icicles and ice mounds to form. Foreman John Elanik mentioned that this was resulting from an electrical issue. They are aware of the matter and are waiting on parts to fix the issue. This may become a work hazard and cause erosion of the ground if this problem is not resolved. ENR recognizes that The Hamlet staff are actively working to correct this issue.
- <sup>4</sup>The condition of the water truck and associated equipment, such as meters, were not inspected at this time. Please ensure that the water tanks, water hoses and nozzles are kept clean at all times.
- A stain was noticed on the concrete pad of Cartridge Filter #3 under the nozzle, see figure 2. This indicates that leaking is occurring. This will need to be fixed immediately.
- The generator room was clean and tidy with a spill kit easily accessible. The spill kits contents were full and complete. The Hamlet regularly checks the generator to ensure it is still operational.
- The secondary containment for the fuel tank was observed to be half filled with snow. This will displace the holding capacity of the fuel in the event the fuel tank fails. The secondary containment needs to be clear of water, snow and/or debris at all times.



WATER USE INSPECTION REPORT

WASTE DISPOSAL – SEWAGE

Disposal Method		Primary Treatment					
Mechanical	N	Camp Sump	N	Natural Water Body	Y	Wetland Treatment	Y
Continuous Discharge	Y	Intermittent Discharge	N	Seasonal Discharge	N	Land Spread	N
Accelerated Biological	N	Other	N/A				

Indicate:      A - Acceptable      U - Unacceptable      N/A - Not Applicable      N/I - Not Inspected

Discharge Quality	N/I <sup>1</sup>	Decant Process & Structures	N/A	Discharge Measurement Device	N/I
Freeboard	A	Sludge Disposal Method	N/A		
Periods Of Discharge	Does not appear to discharge, other than in spring when water levels are high			SNP Samples Collected	No
Effluent Discharge Rates	Natural outflow into the wetland				

Sewage Comments:

- <sup>1</sup>The quality of the lake and chute output could not be inspected as the lake was covered in ice and snow.
- There were no signs of erosion issues along the access road or near the sewage chute.
- The receiving end of the chute is in good, stable condition. However, it is noted that one deteriorating 45-gallon drum is holding up the higher portion of the chute, refer to figure 4. This will need to be replaced with a better brace before the drum fails. The bracing on the lower section of the chute appears to be sound and stable.
- A large cement block is placed directly in front of the chute to prevent the sewage truck driver from backing into the chute.
- No chute damage or signs of sewage spillage were observed. No signs of other human activity observed.
- Mega bags filled with sewage contaminated insulation were being staged to the left of the sewage chutes opening. The bags have been staged there by The Hamlet for drainage. These bags of contaminated insulation need to be removed from the sewage treatment area and be treated and disposed of properly.

WASTE DISPOSAL – SOLID WASTE

Disposal Method		Landfill					
Open Dump	N	Landfill	Y	Burn & Landfill	U <sup>1,2</sup>	Underground	N
Offsite Removal	N	Other	N/A				
Owner / Operator	Hamlet of Sachs Harbour						

Indicate:      A - Acceptable      U - Unacceptable      N/A - Not Applicable      N/I - Not Inspected

Runoff Diversion	N/A	SNP Samples Collected	No
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WATER USE INSPECTION REPORT

Solid Waste Comments:

- <sup>1</sup>Prior to the inspection, ENR had learned that an unknown member of the public lit a fire to the large pile of general household garbage after hours at the landfill. It is evident that the Hamlet of Sachs Harbour is aware of this event, as the Hamlet is offering a \$2,000 reward for any tips relating to the incident, see figure 7. **All unauthorized discharges shall be reported directly to ENR immediately and be included in the annual report.**
- It is to be recognized and commended that the Hamlet recently underwent a huge organizational clean-up at the landfill. Wastes are segregated into separate piles. Fencing was set up as open cells to store larger items and hazardous materials. This is separated into 6 sections to accept wastes such as batteries, tires, appliances, drums, large appliances, and construction and demolition wastes. It is recommended that The Hamlet speak with construction companies before the completion of a project to discuss and agree on disposal methods for construction and hazardous materials.
- <sup>2</sup>A large area of drums are staged at the lower half of the landfill. Some drums are upright, some drums are lying on their side. During the inspection it was said that some of these drums still have some waste inside. All drums need to be completely emptied with the bung caps tightly sealed before entering the landfill. Refer to ENR’s Drum Disposal Protocol for Municipal Landfill document. This document, along with many other waste handling guidelines, can be found at enr.gov.nt.ca
- The SWDF entrance sign was knocked over and lying on the ground. The sign was half covered in snow at the time of inspection. The SWDF sign needs to be visible at all times. Have staff upright the sign whenever it is noticed to have fallen. Consider building a better base as this is a reoccurring issue.
- It is evident that the Hamlet continues to accept construction debris from outside sources.
- Considering the evident gun shooting and arson events that are constantly occurring at the landfill, it is highly recommended that the Hamlet begin considering closing and locking the landfill after hours.
- It is unknown whether any refrigerant agents have been removed from all of the staged large appliances (fridges, freezers, air conditioner units, etc.). Removal of these agents are important for the health and operation of the landfill.

FUEL STORAGE

Indicate:      A - Acceptable              U - Unacceptable              N/A - Not Applicable      N/I - Not Inspected

Owner:	Hamlet of Sachs Harbour	Operator:	Hamlet of Sachs Harbour	Condition of tanks:	N/I
Berms & Liners	N/I	Water within Berm:	N/I	Evidence of Leaks:	N/I
Drainage Pipes	N/A	Pump Station and Catchment Berm	N/I	Runoff Diversion	N/A
Pipeline Condition					

Fuel Storage Comments:

- The fuel tank for the water treatment plant showed no signs of leakage or failure. Other means of fuel and waste storage were not inspected at this time.
- Ensure that all fuel secondary containments are clear of water, snow and/or debris. Have these containments inspected and cleaned out regularly.
- Containers that currently hold hazardous waste or have held hazardous waste in the past must not be allowed to fill up with water when stored outdoors. Empty containers need to be stored on their side to prevent water from entering.
- Refer to the Guideline for Hazardous Waste Management document developed by ENR for information regarding storage, management and the responsibilities when storing hazardous wastes.





WATER USE INSPECTION REPORT

SURVEILLANCE NETWORK PROGRAM

Samples Collected Hamlet of Sachs Harbour	Samples have not been taken in some years		
Samples Collected ENR	None taken		
Signs Posted: SNP	None observed	Warning	

Surveillance Network Program Comments:

- No SNP samples have been taken since 2017. This was last sampled by a Water Resource Officer.
- No map or coordinates available.

GENERAL CONDITIONS/REPORTS/PLANS

Indicate:      A - Acceptable      U - Unacceptable      N/A - Not Applicable      N/I - Not Inspected

C &R Plan	N/A	Records & Reporting	N/I	Final Report	N/A
Geotechnical Inspection	N/A	Posting, Signage	U	Contingency Plan	U
Restorations Activities	N/A	Spills	U	O&M Plan	U
Maintenance	N/I	Modifications	N/A	Annual Report	N/I

General Condition Comments:

- Ensure all signs are upright and clearly visible for the public. Look into have more signs added where needed.

ADDITIONAL COMMENTS/REMARKS

- Inform ENR every time there are plans to modify any facility that lies within the water license, small modifications included.
- Report **all** spills and discharges to ENR immediately. Unauthorized burning is defined as a discharge. Do not hold off reporting due to unknown information, such as responsible party, quantities, time spill occurred, etc.
- Update the Spill Contingency Plan (dated 2011) as soon as possible. Many of the Hamlet employees have changed since then, as have many of the important contact phone numbers. Review and make applicable changes to procedures as well.
- Update the Operations and Management Plan (O&M) (dated 2017) as soon as possible. For the same reasons as above, many of the employees and important phone numbers have changed since the documents have been created. Please review the whole O&M plan and make applicable changes through-out the document.



WATER USE INSPECTION REPORT

MATTERS FOR FOLLOW UP

- Find a new location for Water Treatment Plant key.
- Secure all chemicals within Water Treatment Plant.
- Fix and/or modify leaking water outlet pipe.
- Ensure all secondary containments are clear of water, snow and/or debris.
- Remove the bags of insulation from the Sewage Disposal Facility and dispose of correctly.
- Replace the 45 gallon drum acting as a brace for the sewage chute.
- Address the lot of drums at the landfill. Empty all of the drums completely then store drums closed on their side.
- Be more proactive in accepting/declining construction debris and materials.
- Address the refrigerant agents in the disposed of refrigeration units.

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

- Eliminate the possibilities of unauthorized discharges within all facilities. Report all discharges to ENR and include all discharges in annual reports.
- Update the Operation and Maintenance Plan (O&M Plan).
- Update the Spill Contingency Plan (SCP).
- Ensure all signs are upright and visible.

Inspector’s Signature:

AMgBe





WATER USE INSPECTION REPORT

INSPECTION IMAGES



Figure 1: Housekeeping inside Water Treatment Plant. Multiple bottles of hypochlorite visible in the background.



Figure 2: Stain on pad indicating a leak from Cartridge Filter #3.





WATER USE INSPECTION REPORT

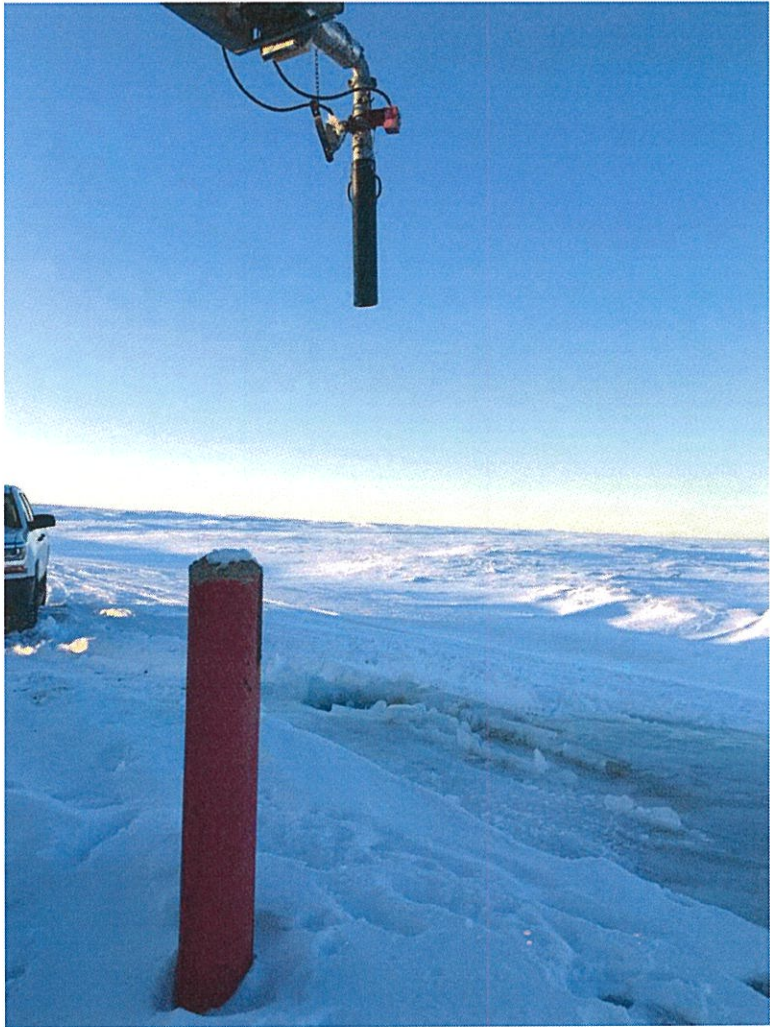


Figure 3: Pumping station outlet leaking at time of inspection. Large icicle was knocked off before photo was taken.



Figure 4: Sewage pump out. Note drum holding up the upper section.



WATER USE INSPECTION REPORT



Figure 5: Fencing set up as open cells for larger items at landfill.



Figure 6: Construction materials left behind by contractors.




WATER USE INSPECTION REPORT

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Sachs Harbour

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INCORPORATED HAMLET OF SACHS HARBOUR  
93 AJGALIAQ ROAD BOX 90, SACHS HARBOUR NT XDE 0Z0  
Telephone: 867-690-4351  
Facsimile: 867-690-4802

October 1, 2019

PUBLIC NOTICE  
REWARD

THE HAMLET OF SACHS HARBOUR  
IS LOOKING FOR ANY INFORMATION  
REGARDING THE RECENT FIRE AT THE  
GARBAGE DUMP.

A \$ 2000.00 REWARD IS BEING OFFERED  
FOR ANY INFORMATION LEADING TO  
THE ARREST AND CONVICTION  
OF THE PERSON(S) RESPONSIBLE.

HAMLET OF SACHS HARBOUR

Figure 7: Letter from the Hamlet of Sachs Harbour looking for information dated October 1, 2019.